Please provide the following information, and submit to the NOAA DM Plan Repository.

Reference to Master DM Plan (if applicable)

As stated in Section IV, Requirement 1.3, DM Plans may be hierarchical. If this DM Plan inherits provisions from a higher-level DM Plan already submitted to the Repository, then this more-specific Plan only needs to provide information that differs from what was provided in the Master DM Plan.

URL of higher-level DM Plan (if any) as submitted to DM Plan Repository:

1. General Description of Data to be Managed

1.1. Name of the Data, data collection Project, or data-producing Program:
Vemco Fish Tag Receiver

1.2. Summary description of the data:
Vemco fish tag receivers are deployed on 7 of the 10 buoys throughout the Chesapeake Bay. Both data logging receivers (VR2W) and real-time receivers (VR2C) are used. The buoys that are equipped with the receivers include First Landing, Jamestown, Stingray Point, Point Lookout, Gooses Reef, Annapolis and Patapsco.

1.3. Is this a one-time data collection, or an ongoing series of measurements?
Ongoing series of measurements

1.4. Actual or planned temporal coverage of the data:
2009 to Present

1.5. Actual or planned geographic coverage of the data:
W: -76.778, E: -76.043, N: 39.152, S: 36.979

1.6. Type(s) of data:
(e.g., digital numeric data, imagery, photographs, video, audio, database, tabular data, etc.)
Table (digital)

1.7. Data collection method(s):
(e.g., satellite, airplane, unmanned aerial system, radar, weather station, moored buoy, research vessel, autonomous underwater vehicle, animal tagging, manual surveys, enforcement activities, numerical model, etc.)
Instrument: Vemco VR2C or VR2W
Platform: CBIBS buoys
Physical Collection / Fishing Gear: N/A

1.8. If data are from a NOAA Observing System of Record, indicate name of system:

1.8.1. If data are from another observing system, please specify:

2. Point of Contact for this Data Management Plan (author or maintainer)

2.1. Name:
Katie Kirk

2.2. Title:
Metadata Contact

2.3. Affiliation or facility:

2.4. E-mail address:
katie.kirk@noaa.gov

2.5. Phone number:
410-267-5646

3. Responsible Party for Data Management
Program Managers, or their designee, shall be responsible for assuring the proper management of the data produced by their Program. Please indicate the responsible party below.

3.1. Name:
Katie Kirk

3.2. Title:
Data Steward

4. Resources
Programs must identify resources within their own budget for managing the data they produce.

4.1. Have resources for management of these data been identified?
Yes

4.2. Approximate percentage of the budget for these data devoted to data management (specify percentage or "unknown"):
~35%

5. Data Lineage and Quality
NOAA has issued Information Quality Guidelines for ensuring and maximizing the quality, objectivity, utility, and integrity of information which it disseminates.

5.1. Processing workflow of the data from collection or acquisition to making it publicly accessible
(describe or provide URL of description):
Lineage Statement:
The VR2W receivers are data logging and not real-time, so after a deployment, must be recovered and the data downloaded. The VR2Cs transmit real-time, however the data is still downloaded from the instrument too. The data is then archived and sent to the

researchers who own the instrument.

5.1.1. If data at different stages of the workflow, or products derived from these data, are subject to a separate data management plan, provide reference to other plan:

5.2. Quality control procedures employed (describe or provide URL of description):
The fish tag receiver data (both from real time and data logging receivers) is stored in the raw file format. The receivers detect tags that are within a 1 km radius and report the tag information. Unlike the rest of the CBIBS data, the fish tag receiver data does not get assigned flags.

Once the new CBIBS middleware is in place (includng QARTOD standards) and the MATOS system is further developed, the fish tag receiver data may undergo different quality control procedures.

6. Data Documentation

The EDMC Data Documentation Procedural Directive requires that NOAA data be well documented, specifies the use of ISO 19115 and related standards for documentation of new data, and provides links to resources and tools for metadata creation and validation.

6.1. Does metadata comply with EDMC Data Documentation directive?
No

6.1.1. If metadata are non-existent or non-compliant, please explain:
Missing/invalid information:
- 7.2. Name of organization of facility providing data access
- 7.2.1. If data hosting service is needed, please indicate

6.2. Name of organization or facility providing metadata hosting:
NMFS Office of Science and Technology

6.2.1. If service is needed for metadata hosting, please indicate:

6.3. URL of metadata folder or data catalog, if known:
https://www.fisheries.noaa.gov/inport/item/29325

6.4. Process for producing and maintaining metadata
(describe or provide URL of description):
Metadata produced and maintained in accordance with the NOAA Data Documentation Procedural Directive: https://nosc.noaa.gov/EDMC/DAARWG/docs/EDMC_PD-Data_Documentation_v1.pdf

7. Data Access

NAO 212-15 states that access to environmental data may only be restricted when distribution is explicitly limited by law, regulation, policy (such as those applicable to personally identifiable

information or protected critical infrastructure information or proprietary trade information) or by security requirements. The EDMC Data Access Procedural Directive contains specific guidance, recommends the use of open-standard, interoperable, non-proprietary web services, provides information about resources and tools to enable data access, and includes a Waiver to be submitted to justify any approach other than full, unrestricted public access.

7.1. Do these data comply with the Data Access directive?

No

7.1.1. If the data are not to be made available to the public at all, or with limitations, has a Waiver (Appendix A of Data Access directive) been filed?

No

7.1.2. If there are limitations to public data access, describe how data are protected from unauthorized access or disclosure:

The data is accessible to the researchers who own the receivers.

7.2. Name of organization of facility providing data access:

7.2.1. If data hosting service is needed, please indicate:

7.2.2. URL of data access service, if known:

http://buoybay.noaa.gov/

7.3. Data access methods or services offered:

The data are downloaded from the receivers after deployments. The data is archived and sent to the researcher's who own the receivers (SERC).

7.4. Approximate delay between data collection and dissemination:

<10 minutes

7.4.1. If delay is longer than latency of automated processing, indicate under what authority data access is delayed:

Real time data delay is less than 10 minutes. Data logging receivers are deployed for a couple months and then the data is downloaded.

8. Data Preservation and Protection

The NOAA Procedure for Scientific Records Appraisal and Archive Approval describes how to identify, appraise and decide what scientific records are to be preserved in a NOAA archive.

8.1. Actual or planned long-term data archive location:

(Specify NCEI-MD, NCEI-CO, NCEI-NC, NCEI-MS, World Data Center (WDC) facility, Other, To Be Determined, Unable to Archive, or No Archiving Intended)

To Be Determined

8.1.1. If World Data Center or Other, specify:

8.1.2. If To Be Determined, Unable to Archive or No Archiving Intended, explain:

The raw Vemco data currently is not processed through a QC system. The data from both real time receivers and data logging receivers is stored at NCBO and given to a researcher at SERC who owns several receivers. When MATOS is complete, the data will be integrated and stored in that system.

8.2. Data storage facility prior to being sent to an archive facility (if any):

NMFS Office Of Habitat Conservation - Annapolis, MD

Vemco fish tag receivers are currently located on seven of the ten buoys throughout the Chesapeake Bay, including the following buoys: First Landing, Jamestown, Stingray Point, Point Lookout, Gooses Reef, Annapolis and Patpasco.

8.3. Approximate delay between data collection and submission to an archive facility:

~3 months

8.4. How will the data be protected from accidental or malicious modification or deletion prior to receipt by the archive?

Discuss data back-up, disaster recovery/contingency planning, and off-site data storage relevant to the data collection

All data operations and storage take place on secure FISMA-compliant servers.

9. Additional Line Office or Staff Office Questions

Line and Staff Offices may extend this template by inserting additional questions in this section.